

SESSION 3.2

HOUSINGS, CAGES AND ASSEMBLIES

RON JOHNSON



2070 & ITS CABINET WORKSHOP - AUGUST 2001

HOUSING 1



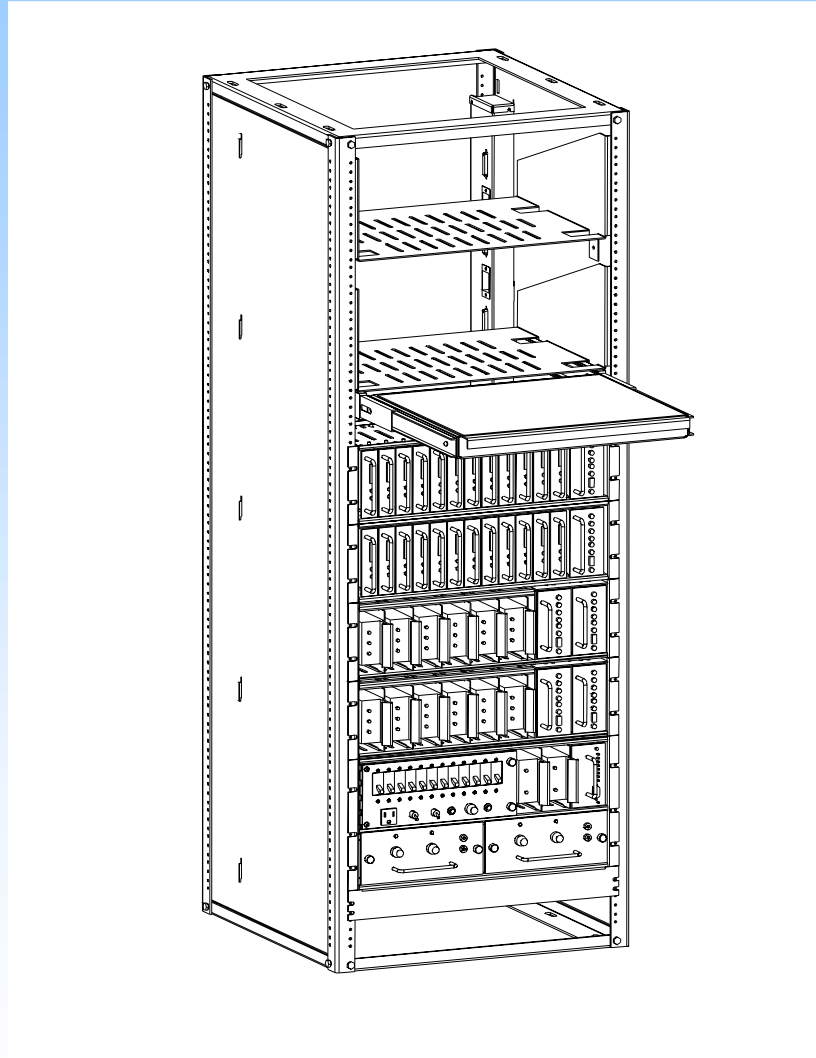
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HOUSING 3

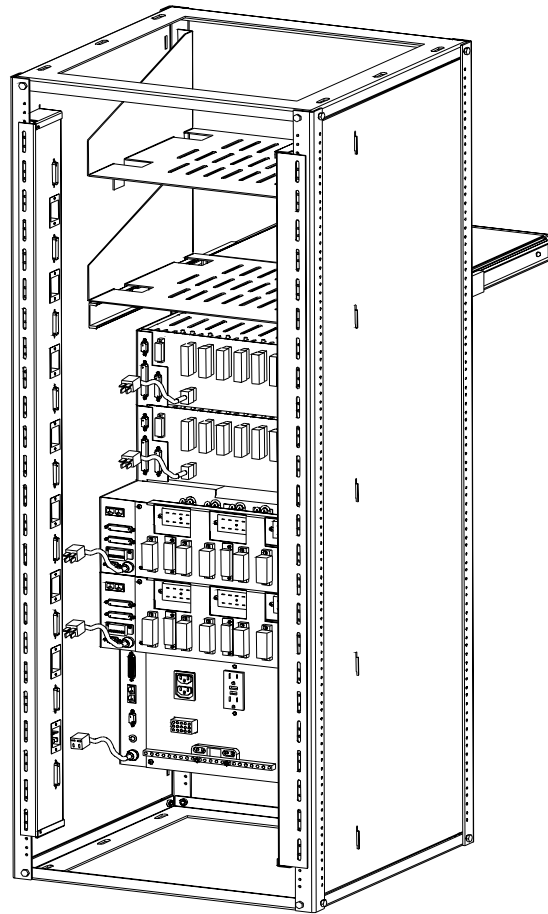


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ITS CABINET CAGE ASSEMBLY



ITS CABINET CAGE ASSY



INPUT ASSEMBLY

SUPPORTS TWELVE INPUT DEVICES PLUS SIU (TWO OR FOUR CHANNEL DETECTORS OR INPUT DEVICES).

170 DETECTORS AND ISOLATORS ACCEPTED.

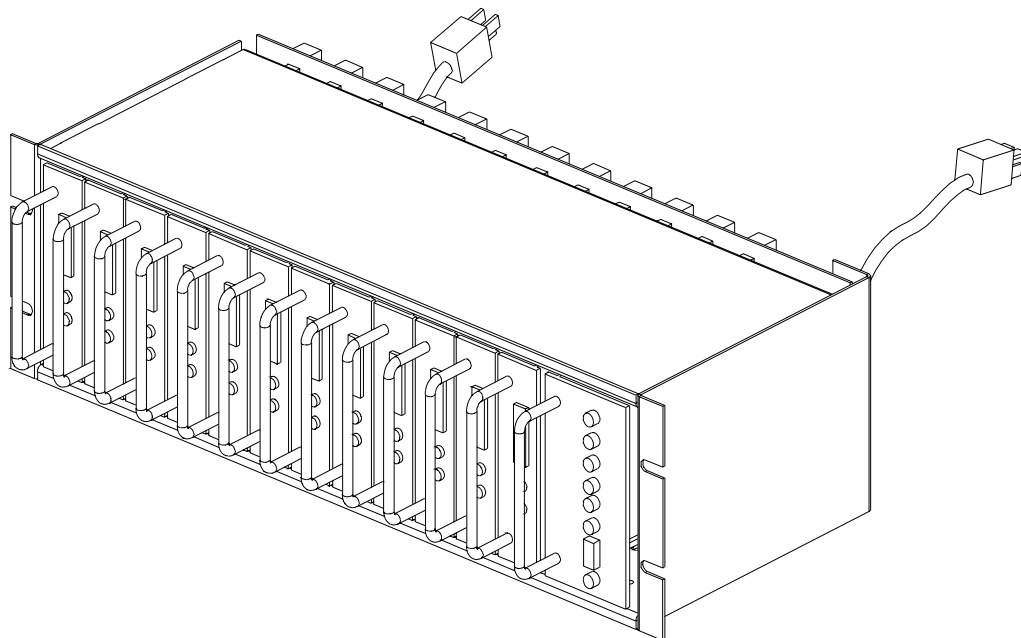
22 PIN DOUBLE SIDED EDGE CONNECTOR PROVIDED TO ACCOMMODATE DEVICES.

PLUGGABLE FIELD CONNECTORS FOR EASY INSTALLATION OR REMOVAL.

UP TO FIVE INPUT ASSEMBLIES SUPPORTED IN RACK.



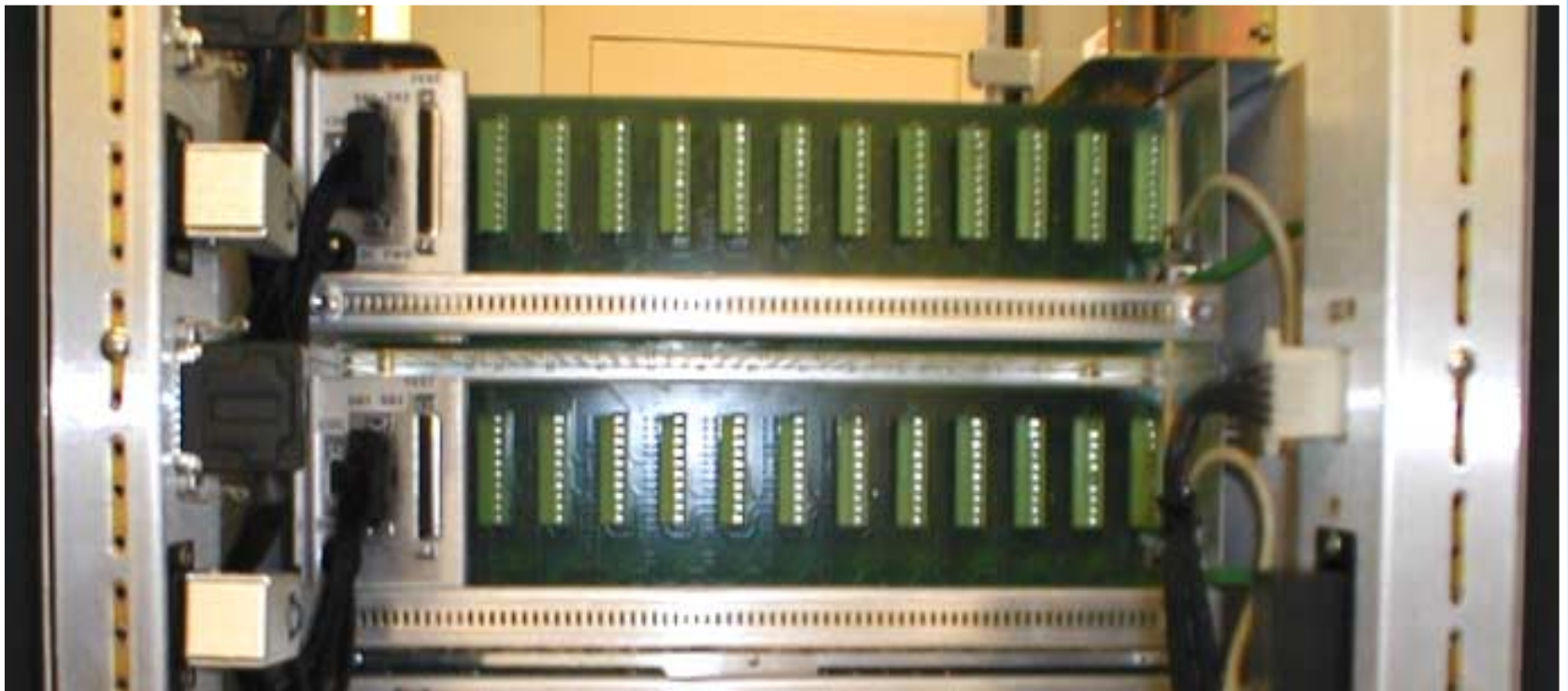
INPUT ASSEMBLY



INPUT ASSEMBLY



INPUT ASSEMBLY (REAR)



6/14 PACK OUTPUT ASSEMBLIES

ACCEPTS 6 OR 14 SWITCHPACKS WITH AN AMU AND SIU.

CONTAINS THREE FLASH TRANSFER RELAYS AND SIX FLASH PROGRAM BLOCKS FOR EACH OF THE SIX SWITCHPACKS.

WILL CONTAIN TORROID COILS FOR CURRENT MEASUREMENT OF SWITCHPACK OUTPUT (FUTURE)

PLUGGABLE FIELD OUTPUT CONNECTORS FOR EASY REMOVAL AND INSTALLATION.

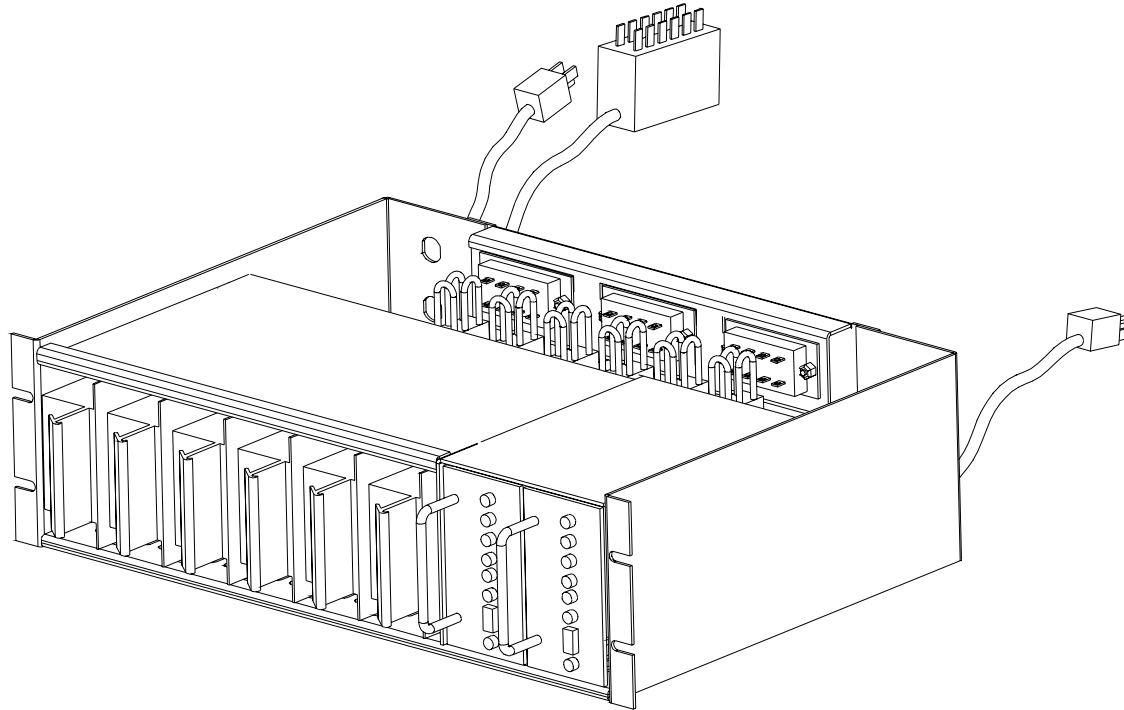
PLUGGABLE OUTPUT PROTECTION DEVICES ie. MOVISTORS

UP TO FOUR 6 PACK ASSEMBLIES OR TWO 14 PACK ASSEMBLIES ACCEPTED IN THE RACK SYSTEM.



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6 PACK OUTPUT ASSEMBLY

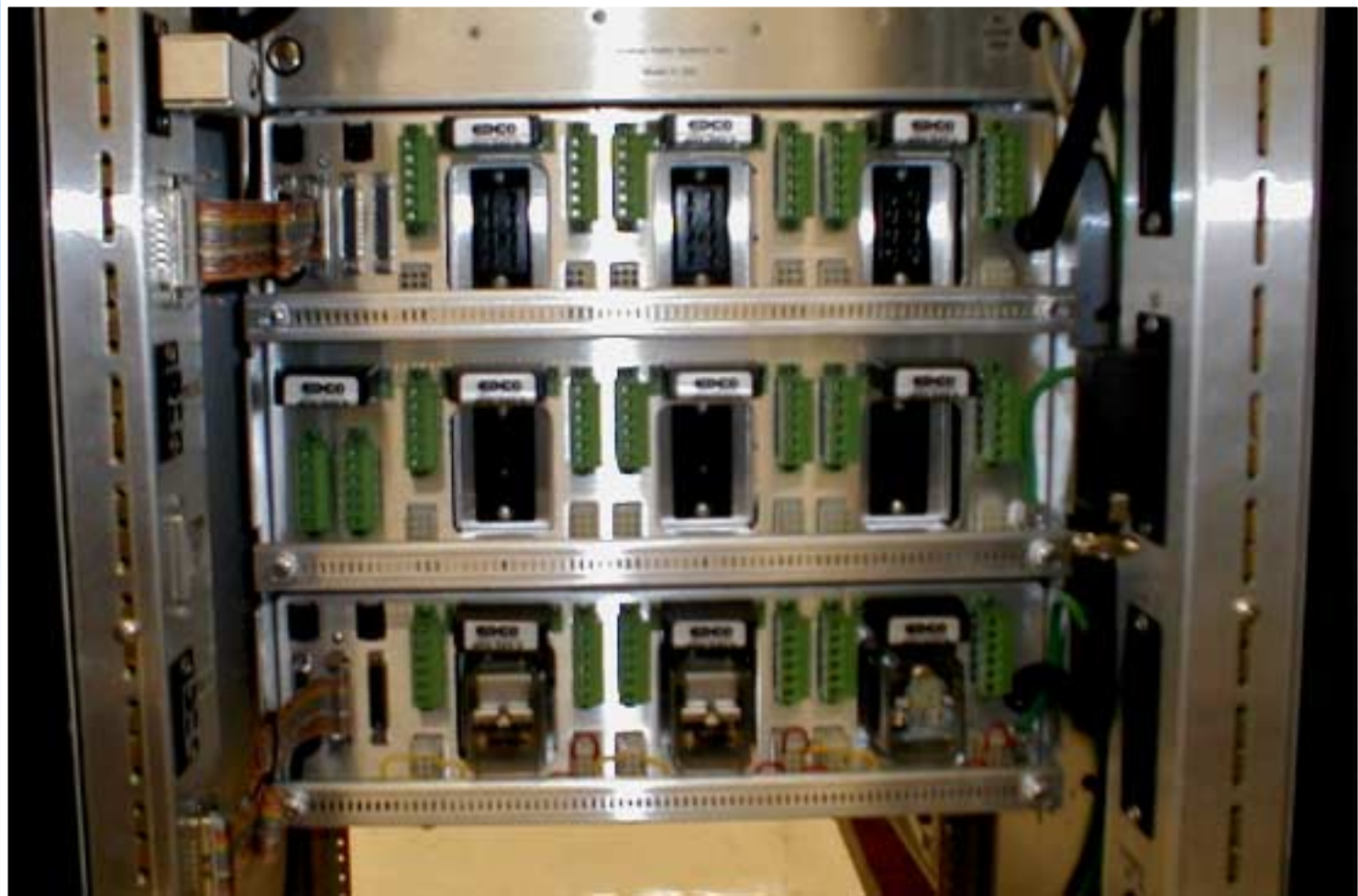


6 & 14 PACK OUTPUT ASSEMBLIES



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6 & 14 PACK OUTPUT ASSEMBLIES



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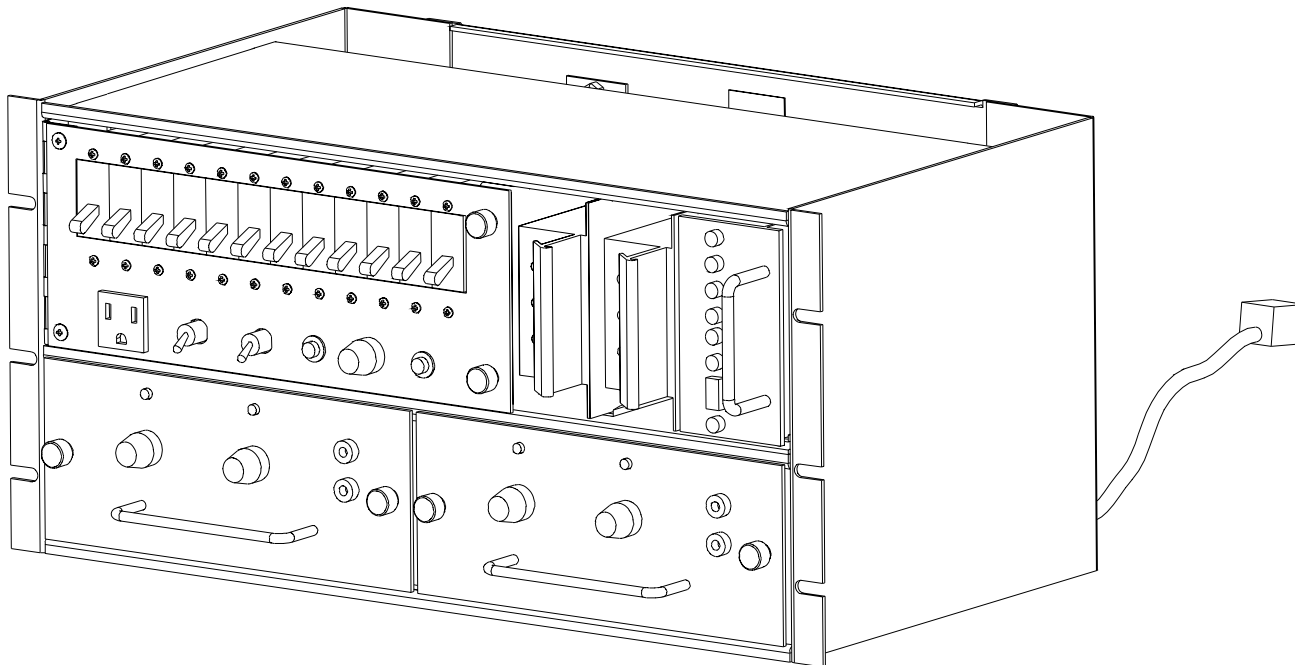
PDA 5/6

Reza Roozitalab



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PDA 5



PDA 5 INSTALLED



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APPLICATIONS:

PDA #5: USED FOR TRAFFIC SIGNAL CABINET APPLICATIONS (E.G., 340, 342 & 346).

PDA #6: USED IN TRAFFIC MANAGEMENT CABINET APPLICATIONS (E.G., 354).

FEATURED:

STANDARD 19" EIA RACK COMPATIBLE.

MODULAR DESIGN FOR INTERCHANGEABILITY.

FRONT DOOR ACCESS TO THE INSIDE.

HOUSES 12 & 24 VOLT POWER SUPPLIES & CABINET MONITOR UNIT (CMU).



PDA #5

FRONT INCLUDES: CIRCUIT BREAKERS, SIGNAL SWITCHES & SERVICE RECEPTACLES.

REAR INCLUDES: SERIAL BUSES, DC PLUG, AC SIGNAL POWER, CABINET CONNECTOR & SERVICE RECEPTACLE.

INSIDE INCLUDES: MERCURY CONTACTOR.

THE CMU, 12 & 24 VOLT POWER SUPPLIES AND FLASHER PLUGS FROM THE FRONT.

PDA #6

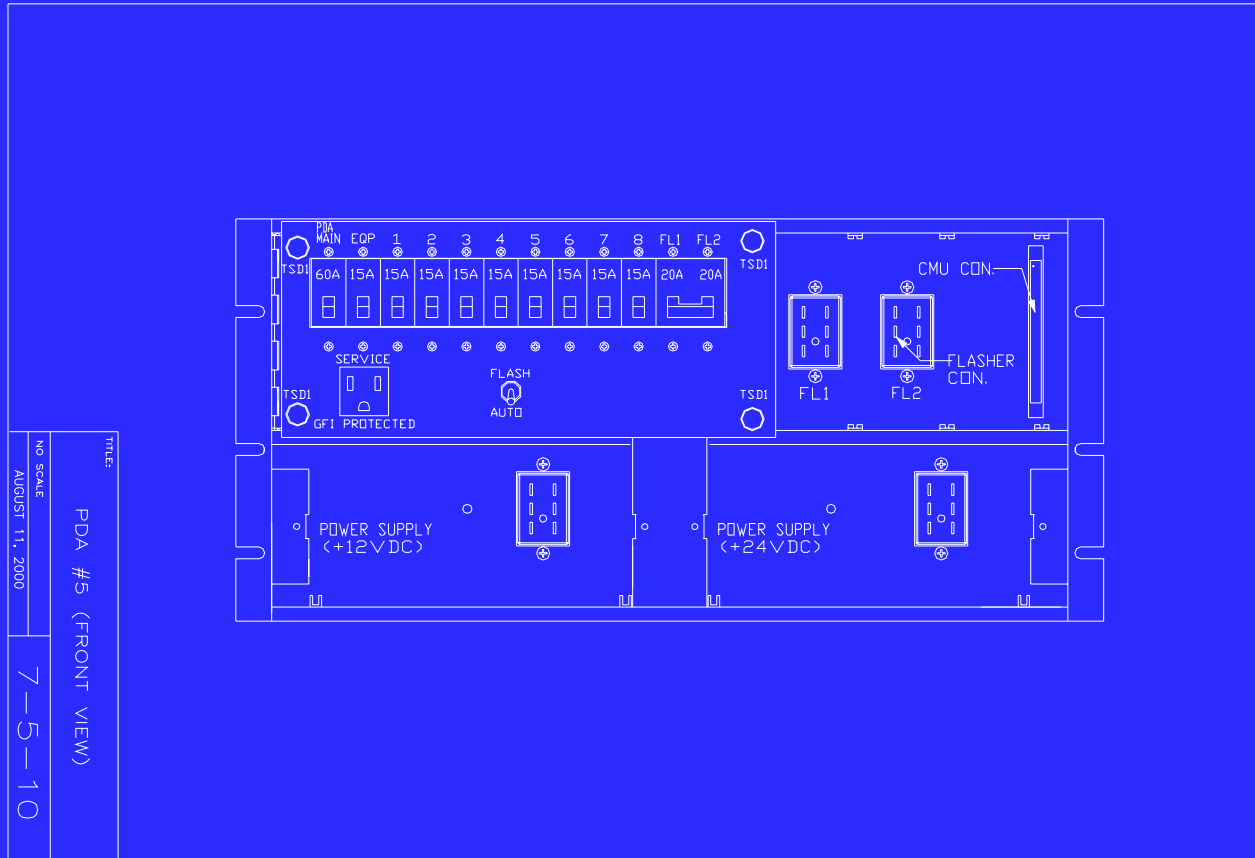
PDA #6 REAR IS THE SAME AS PDA #5'S.

DIFFERENCES ARE:

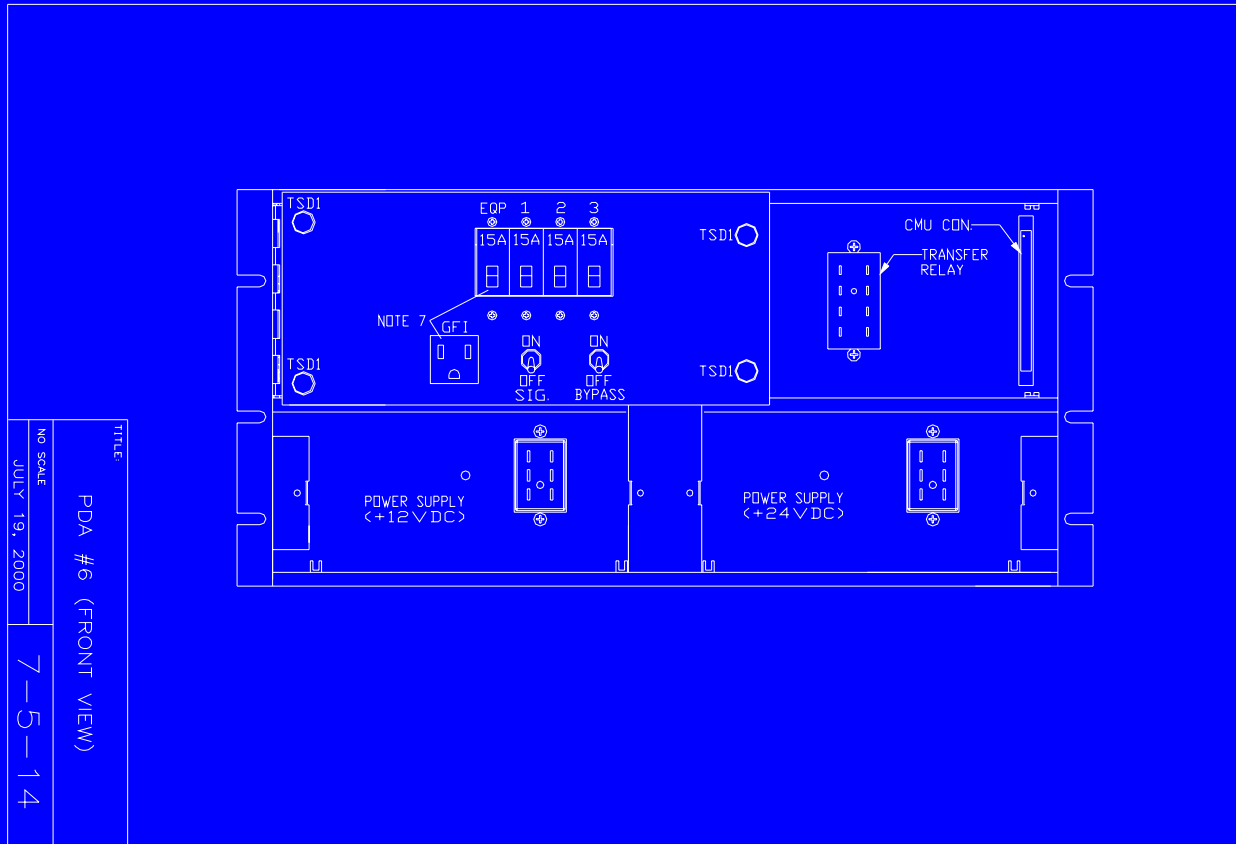
LESS CIRCUIT BREAKERS, SIMPLER WIRING AND INSTEAD OF HOUSING TWO 204-FLASHERS, IT HOUSES A 430 FLASH TRANSFER RELAY.



PDA #5

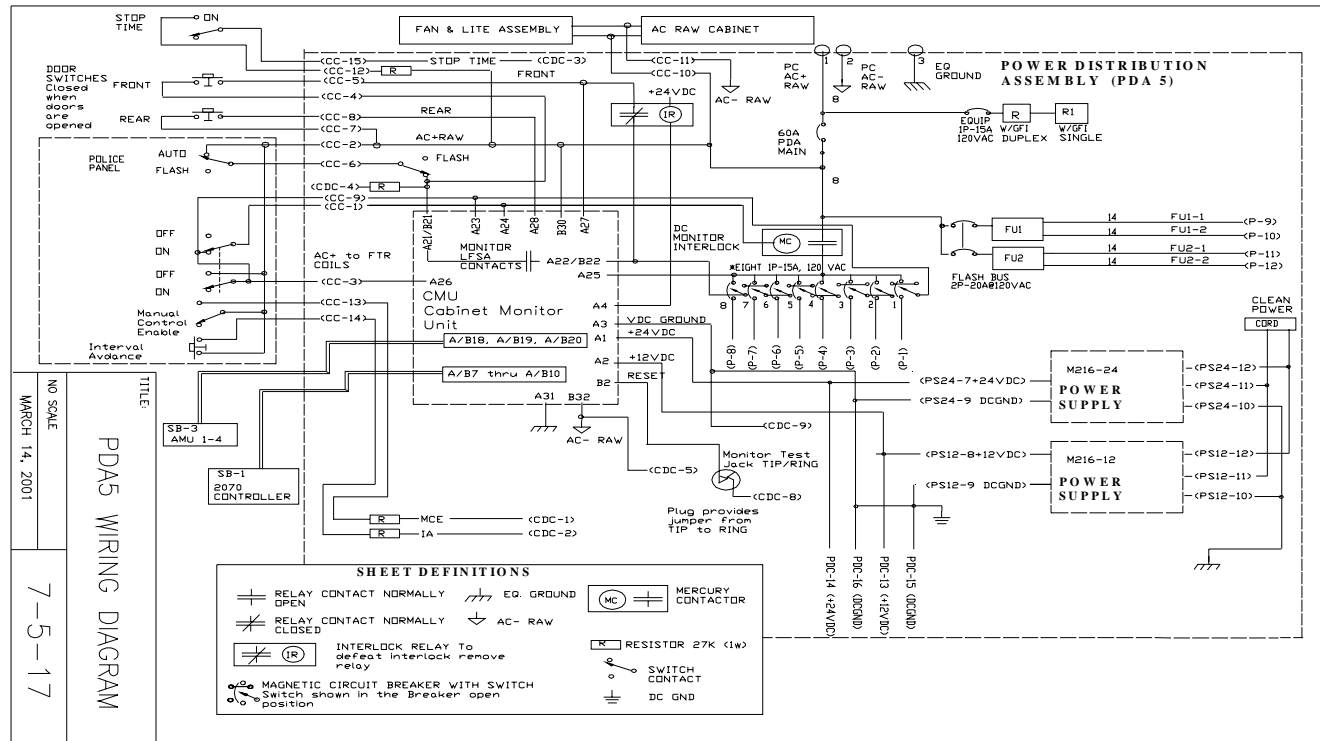


PDA #6



PDA #5 WIRING DIAGRAM

7-5-20



MODULAR BUS ASSEMBLIES

SERVICE PANEL ASSEMBLY: PROVIDES TERMINATION AND THE MAIN BREAKER FOR POLE SERVICE, AND FILTERING BY WAY OF A PLUGGABLE FILTER FOR CLEAN POWER TO THE CONTROLLER AND OTHER ASSEMBLIES.

AC POWER ASSEMBLY: PROVIDES INTERCONNECT OF THE EIGHT CIRCUIT BREAKERS TO THE OUTPUT ASSEMBLIES, FLASHER OUTPUTS AND FTR CONTROL AS WELL AS CLEAN POWER PLUGS FOR RACK ASSEMBLIES.

DC COMMUNICATIONS ASSEMBLY: PROVIDES SERIAL COMMUNICATIONS BETWEEN THE CONTROLLER AND THE SIU MODULES AS WELL AS +24VDC AND +12VDC FOR THE INPUT AND OUTPUT ASSEMBLIES.

AC CLEAN POWER ASSEMBLY: A CLEAN POWER BUS FOR USE IN THE HOUSING 3 RACK ASSEMBLY.

THE MODULAR BUS ASSEMBLIES PROVIDE A SIMPLE QUICK MEANS OF CABINET INTERCONNECT THAT WILL MAKE MAINTENANCE AND TROUBLESHOOTING FASTER AND MORE PRECISE.



SERVICE PANEL ASSEMBLY



AC+ RAW /CLEAN EXTENDED CABLE ASSEMBLY



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CABINET COMMUNICATIONS

SERIAL INTERFACE UNIT (SIU) IS THE CABINET COMMUNICATIONS AND CONTROL UNIT

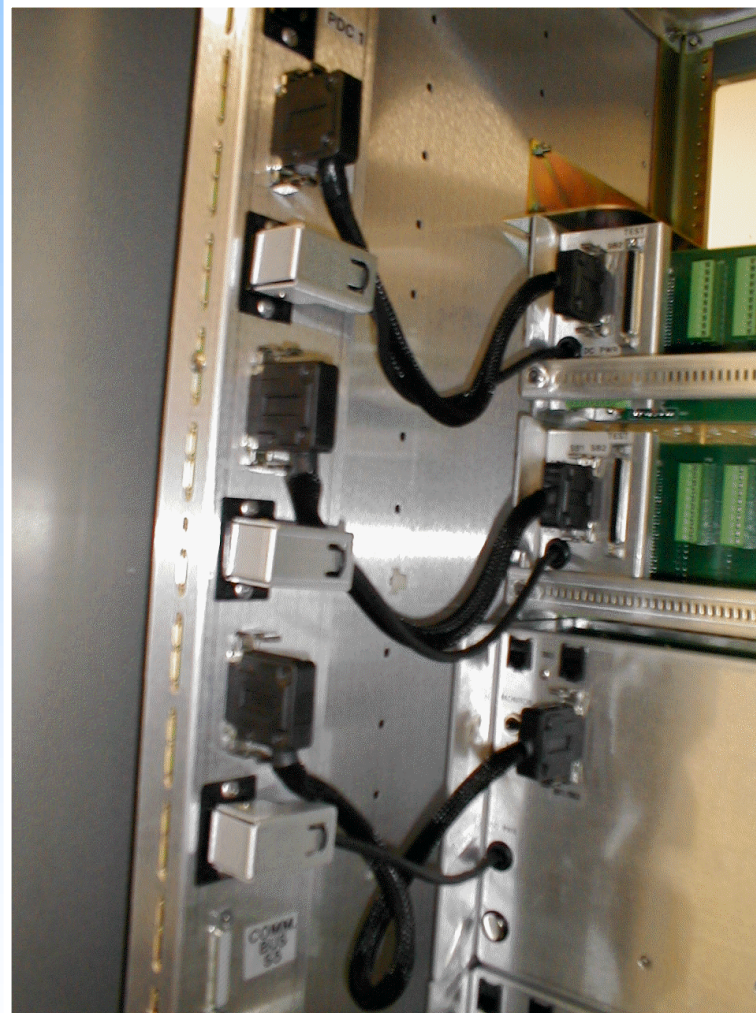
SERIAL BUS 1- COMMAND / RESPONSE, DISTRIBUTED PROCESSING OF OUTPUTS AND STATUS/DETECTION OR STATUS OF INPUTS.

SERIAL BUS 2 - COLLECTOR OF PREPROCESSED DATA FROM DETECTOR DEVICES OR MODULAR NTCIP DEVICES.

SERIAL BUS 3 - DEDICATED TO MONITOR SYSTEM



DC POWER AND SERIAL COMMUNICATIONS BUS ASSEMBLY



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